

Attorney's Docket: 2001DE313/D

Serial No.: 10/650,370

Art Unit 1621

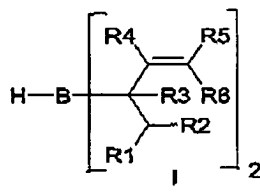
Response to Office Action of April 14, 2004

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-7 (Canceled)

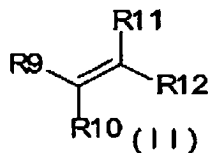
Claims 8-10 (Withdrawn)

11.(Currently Amended) A process for preparing boronic [[acids]] acid esters by reaction of a diene with sodium borohydride in the presence of [[an]] a first oxidant selected from the group consisting of an alkyl halide, a dialkyl sulfate, and mixtures thereof to form the corresponding bis(allyl)borane of the formula (I) ~~as described in claim 4~~



wherein R<sup>1</sup>-R<sup>6</sup> are H, aryl or substituted or unsubstituted C<sub>1</sub>-C<sub>4</sub>-alkyl or two of the radicals R<sup>1</sup>-R<sup>6</sup> may be closed to form a cyclic system.

and further reaction of the borane (I) with an appropriate alkene (II) or alkyne (IV) to

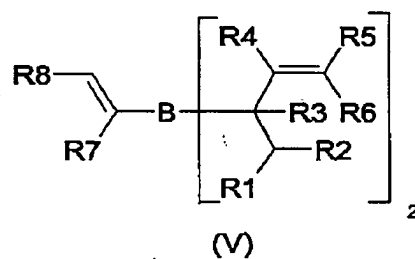
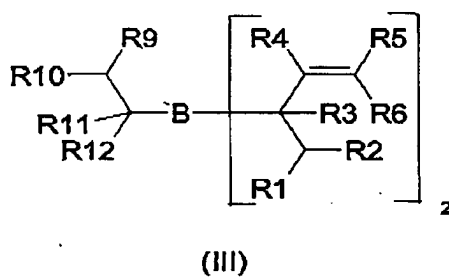
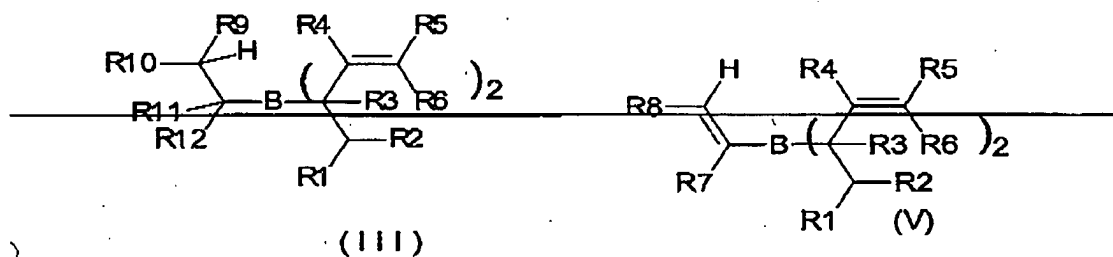


give the

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alkylbis(allyl)borane (III) or alkenylbis(allyl)borane (V)



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wherein the radicals R<sup>7</sup> to R<sup>12</sup> are: aryl, substituted or unsubstituted, alkyl-(C<sub>1</sub>-C<sub>8</sub>), which may be branched and/or substituted, alkoxy-(C<sub>1</sub>-C<sub>8</sub>), acyloxy-(C<sub>1</sub>-C<sub>8</sub>), O-phenyl, fluorine, chlorine, NO<sub>2</sub>, NH<sub>2</sub>, NHalkyl-(C<sub>1</sub>-C<sub>8</sub>), Nalkyl<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>), CN, CHO, SO<sub>3</sub>H, SO<sub>3</sub>R, SO<sub>2</sub>NH<sub>2</sub>, SO<sub>2</sub>N(alkyl-(C<sub>1</sub>-C<sub>8</sub>))<sub>2</sub>, SO<sub>2</sub>-alkyl-(C<sub>1</sub>-C<sub>8</sub>), COO-alkyl-(C<sub>1</sub>-C<sub>8</sub>), CONH<sub>2</sub>, CO-alkyl-(C<sub>1</sub>-C<sub>8</sub>), NHCHO, CF<sub>3</sub>, 5-membered heteroaryl or 6-membered heteroaryl, where two of radicals R<sup>7</sup> to R<sup>12</sup> may also form a cyclic ring system which may contain heteroatoms

which is oxidized directly and directly oxidizing the alkylbis(allyl)borane (III) or alkenylbis(allyl)borane (V) in the presence of [[an]] a second oxidant to form the corresponding bisallyl alkylboronate or alkenylboronate and, if desired, subsequent conversion into a derivative.

Claim 12 (Canceled)

13. The process as claimed in claim 11, wherein the second oxidant [[used]] is selected from the group consisting of formaldehyde, acetone, glyoxal, [[or]] diacetyl, and mixtures thereof.

Claim 14 (Withdrawn)

15.(New) The process of claim 11, further comprising hydrolyzing the boronic acid esters to form boronic acids